

The diagram illustrates a computer system architecture, labeled 100, which is a networked system. At the center is a **Central Computer (which may actually be a complex of many interconnected computers)**, labeled 150. This central computer is connected to several peripheral systems:

- First Manufacturer (Grocery Item Producer) Computer System**, labeled 110.
- Second Manufacturer (Grocery Item Wholesaler) Computer System**, labeled 111.
- First Retailer (Supermarket) Computer System**, labeled 120.
- Second Retailer (Supermarket) Computer System**, labeled 121.
- Nth Retailer (Supermarket) Computer System**, labeled 12N.

Ellipses (...) between the manufacturer and retailer groups indicate that there can be more than two of each. The entire system is designated by the reference numeral 100.

Fig. 1

Fig. 2

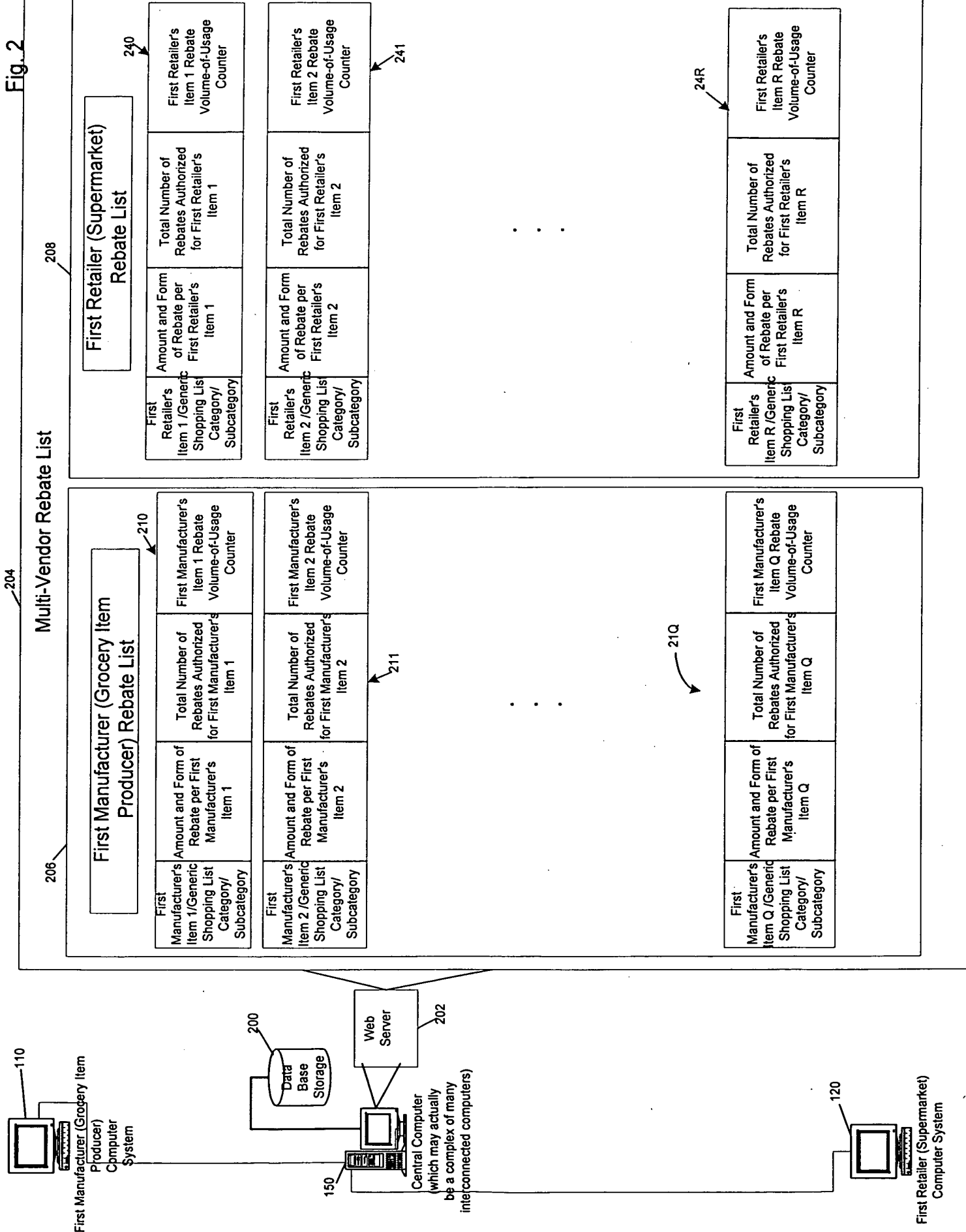


Fig. 3

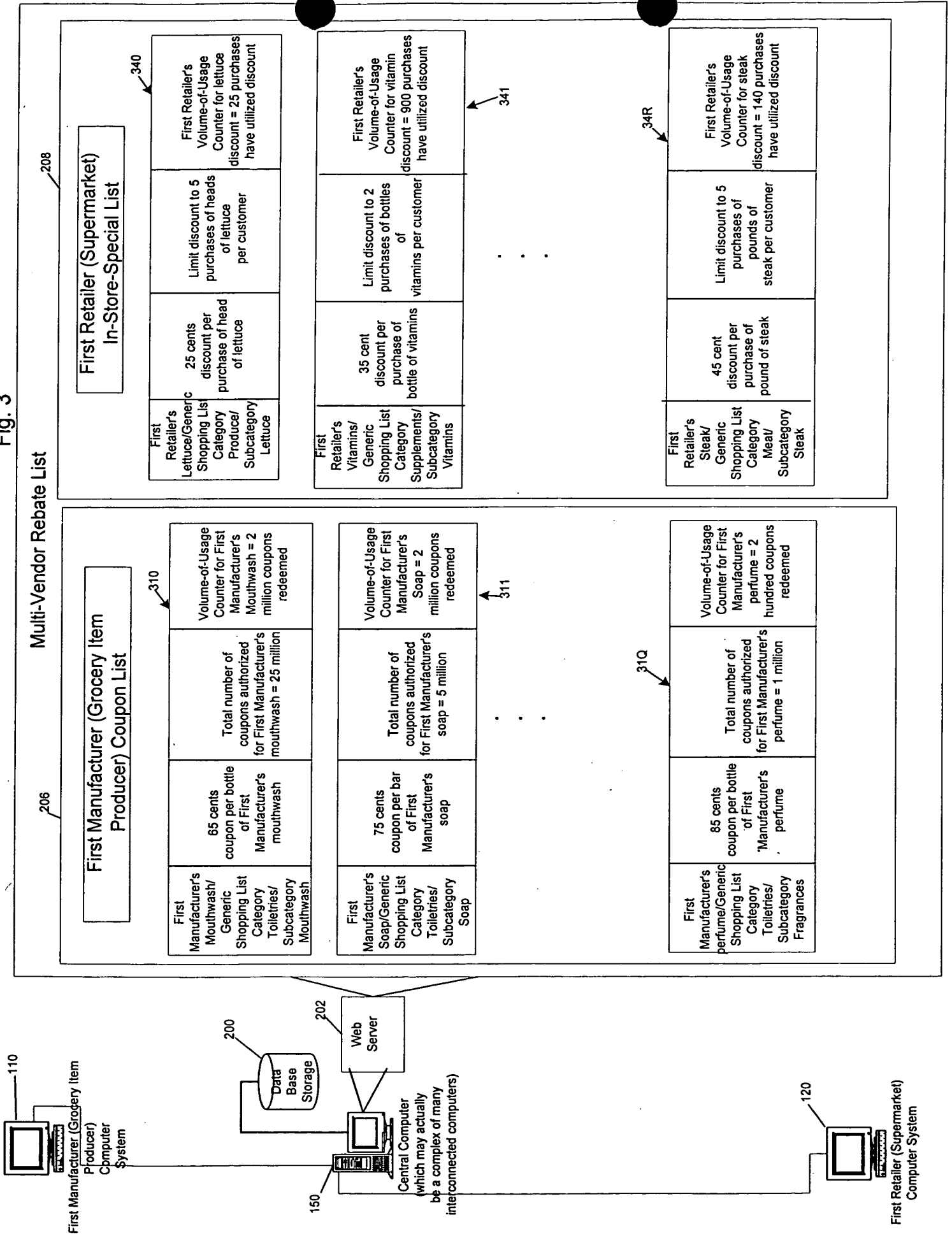


Fig. 4

204

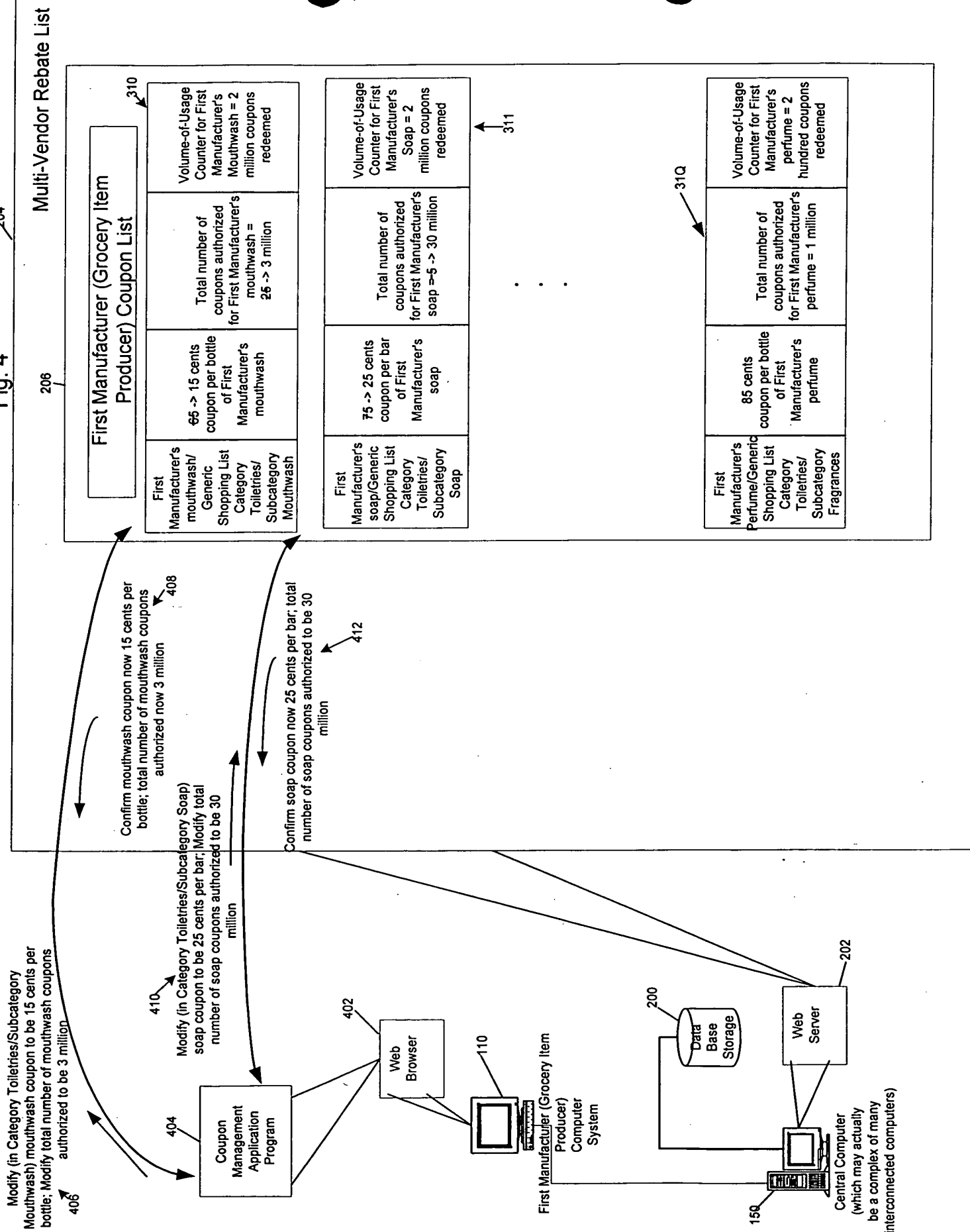


Fig. 5

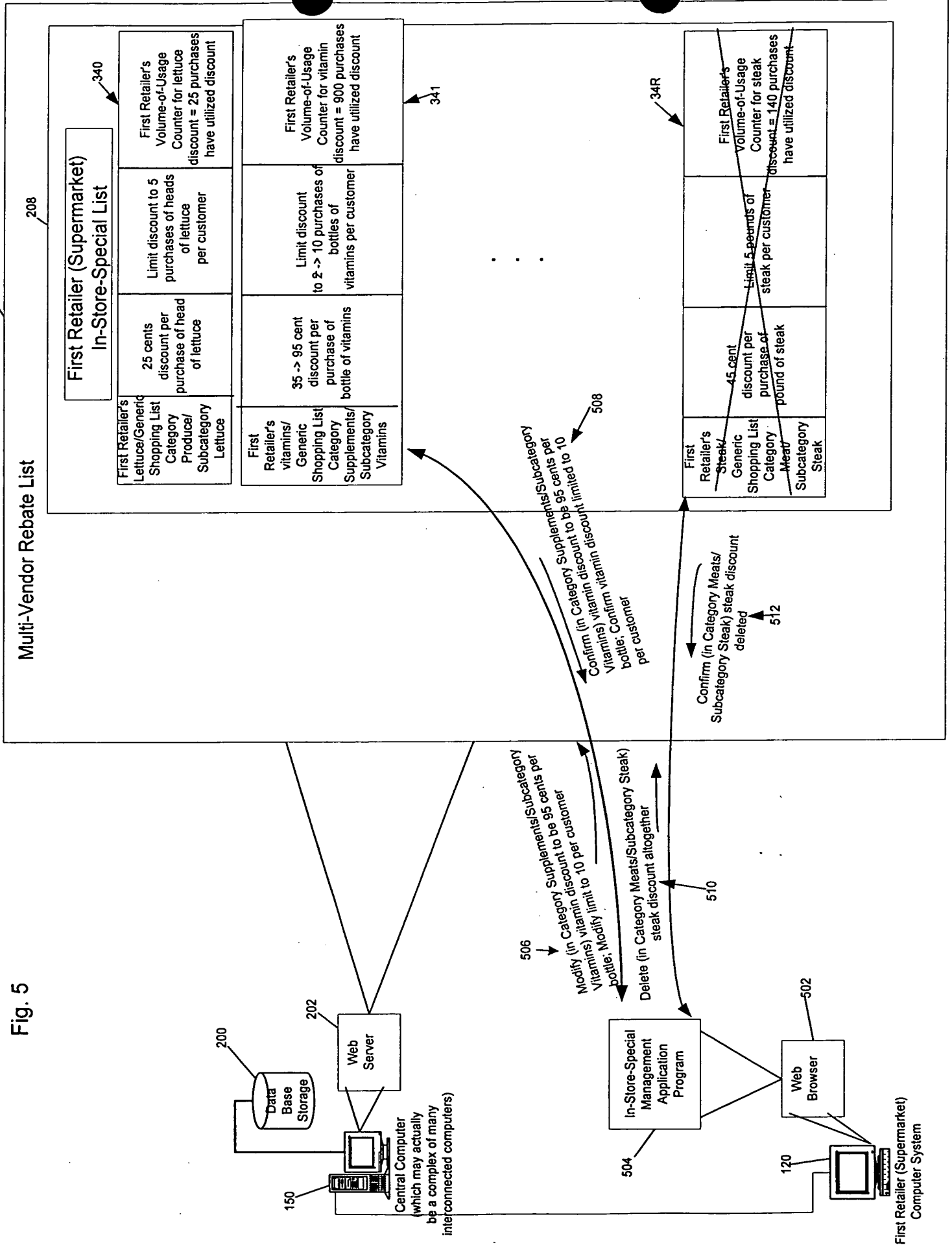
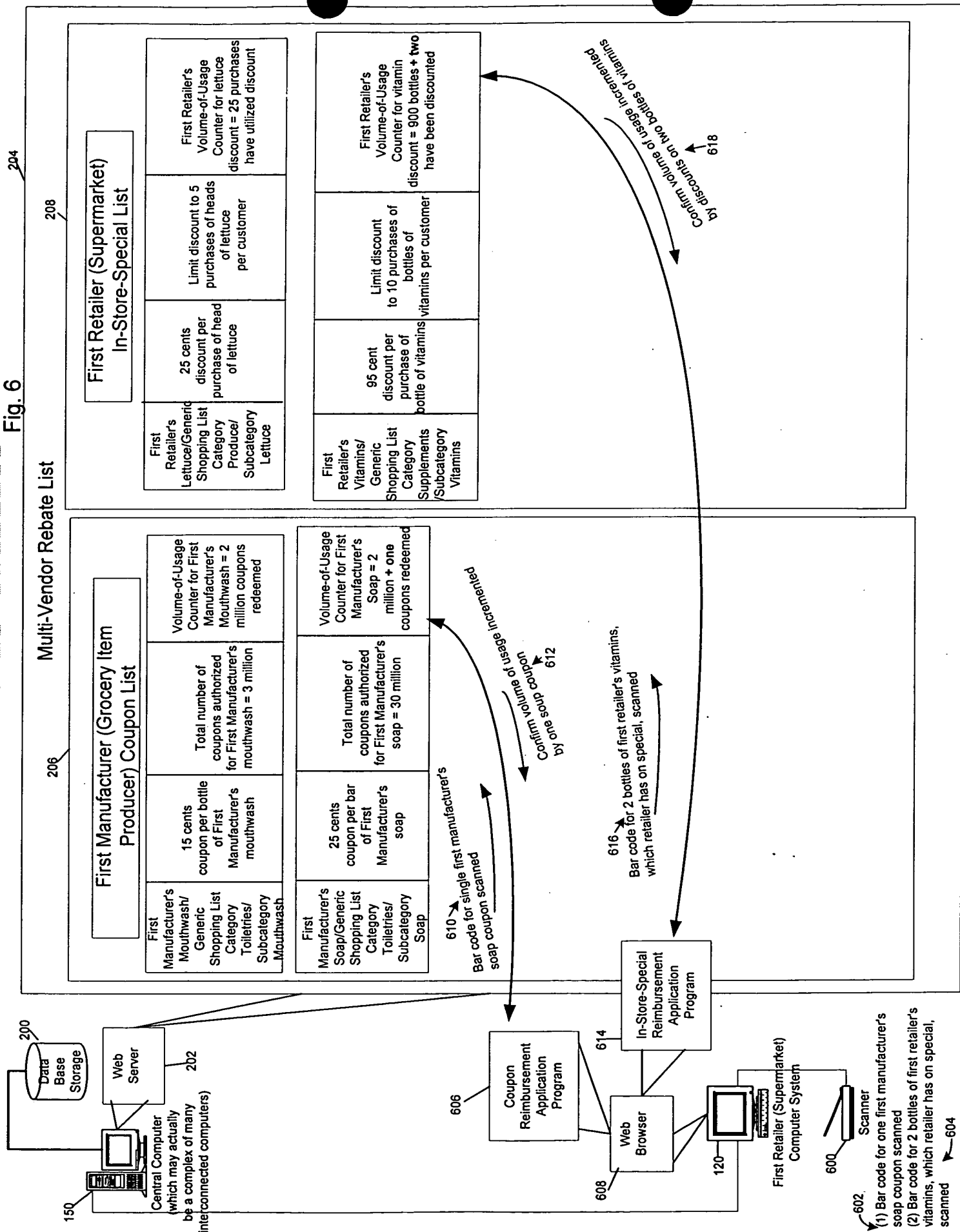
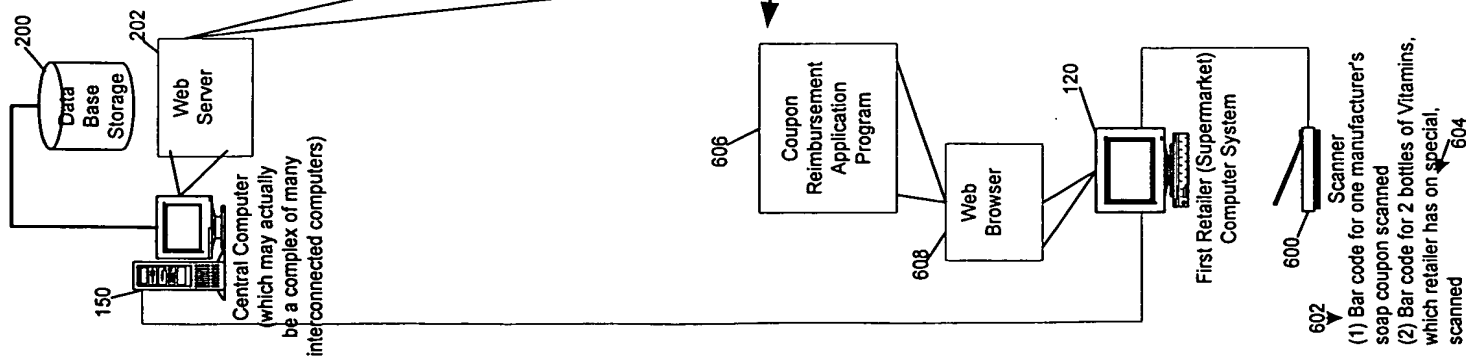


Fig. 6





Multi-Vendor Rebate List

First Manufacturer (Grocery Item Producer) Coupon List

First Manufacturer's Mouthwash/Generic Shopping List Category Toiletries/Subcategory Mouthwash	15 cents coupon per bottle of First Manufacturer's mouthwash	Total number of coupons authorized for First Manufacturer's mouthwash = 3 million	Volume-of-Usage Counter for First Manufacturer's Mouthwash = 2 million coupons redeemed
First Manufacturer's Soap/Generic Shopping List Category Toiletries/Subcategory Soap	25 cents coupon per bar of First Manufacturer's soap	Total number of coupons authorized for First Manufacturer's soap = 30 million	Volume-of-Usage Counter for First Manufacturer's Soap = 2 million + one coupons redeemed

312 Bar code for single first manufacturer's soap coupon scanned

311 Bar code for the single first manufacturer's soap coupon is currently worth 25 cents. Transaction on 21 May 2000 has been logged

First Manufacturer (Grocery Item Producer) Retailer-Specific Coupon Usage List

First Retailer Coupon Redemption Log

Type of Coupon	Time and Date of Redemption	Value of Coupon at Time of Redemption
Peanut Butter	0830 hours on 21 May 2000	\$00.25
Razor Blades	1045 hours on 21 May 2000	\$00.85
Soap	1440 hours on 21 May 2000	\$00.25

Second Retailer Coupon Redemption Log

Type of Coupon	Time and Date of Redemption	Value of Coupon at Time of Redemption
Diapers	1230 hours on 21 May 2000	\$02.25
Formula	1345 hours on 21 May 2000	\$04.85
Aspirin	1740 hours on 21 May 2000	\$00.65

Nth Retailer Coupon Redemption Log

Type of Coupon	Time and Date of Redemption	Value of Coupon at Time of Redemption
Beer	2130 hours on 21 May 2000	\$02.25
Chips	2131 hours on 21 May 2000	\$01.35
Salsa	2131 hours on 21 May 2000	\$00.25

Mth Manufacturer Retailer-Specific Coupon Usage List

First Retailer Coupon Redemption Log

Type of Coupon	Time and Date of Redemption	Value of Coupon at Time of Redemption
Butter	0838 hours on 21 May 2000	\$00.35
Syrup	1145 hours on 21 May 2000	\$01.85
Soap	1444 hours on 21 May 2000	\$00.65

Nth Retailer Coupon Redemption Log

Type of Coupon	Time and Date of Redemption	Value of Coupon at Time of Redemption
Wine	2330 hours on 21 May 2000	\$02.25
Coffee	2333 hours on 21 May 2000	\$03.35
Salsa	2131 hours on 21 May 2000	\$00.25

Fig. 7

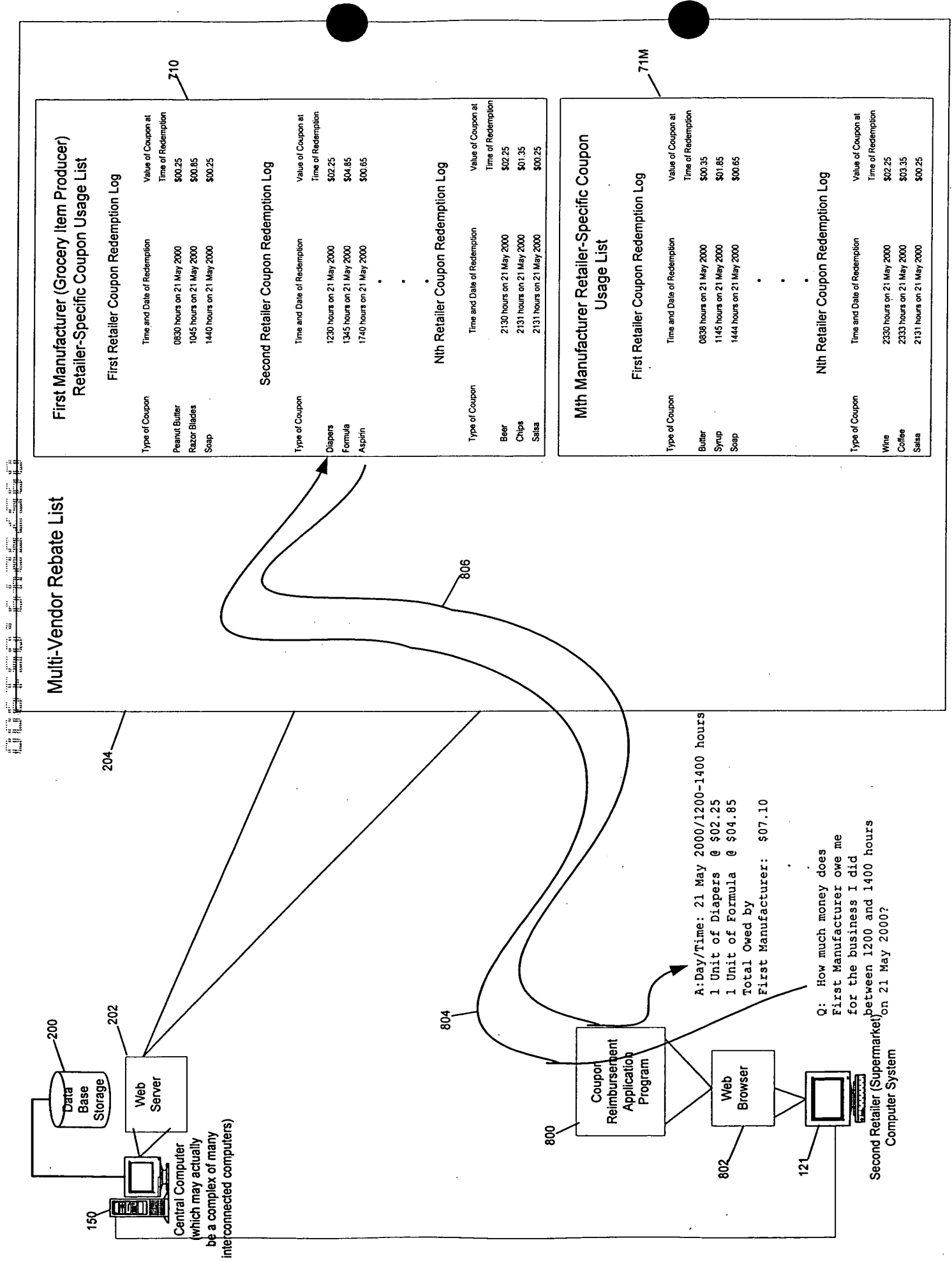


Fig. 8

Fig. 9

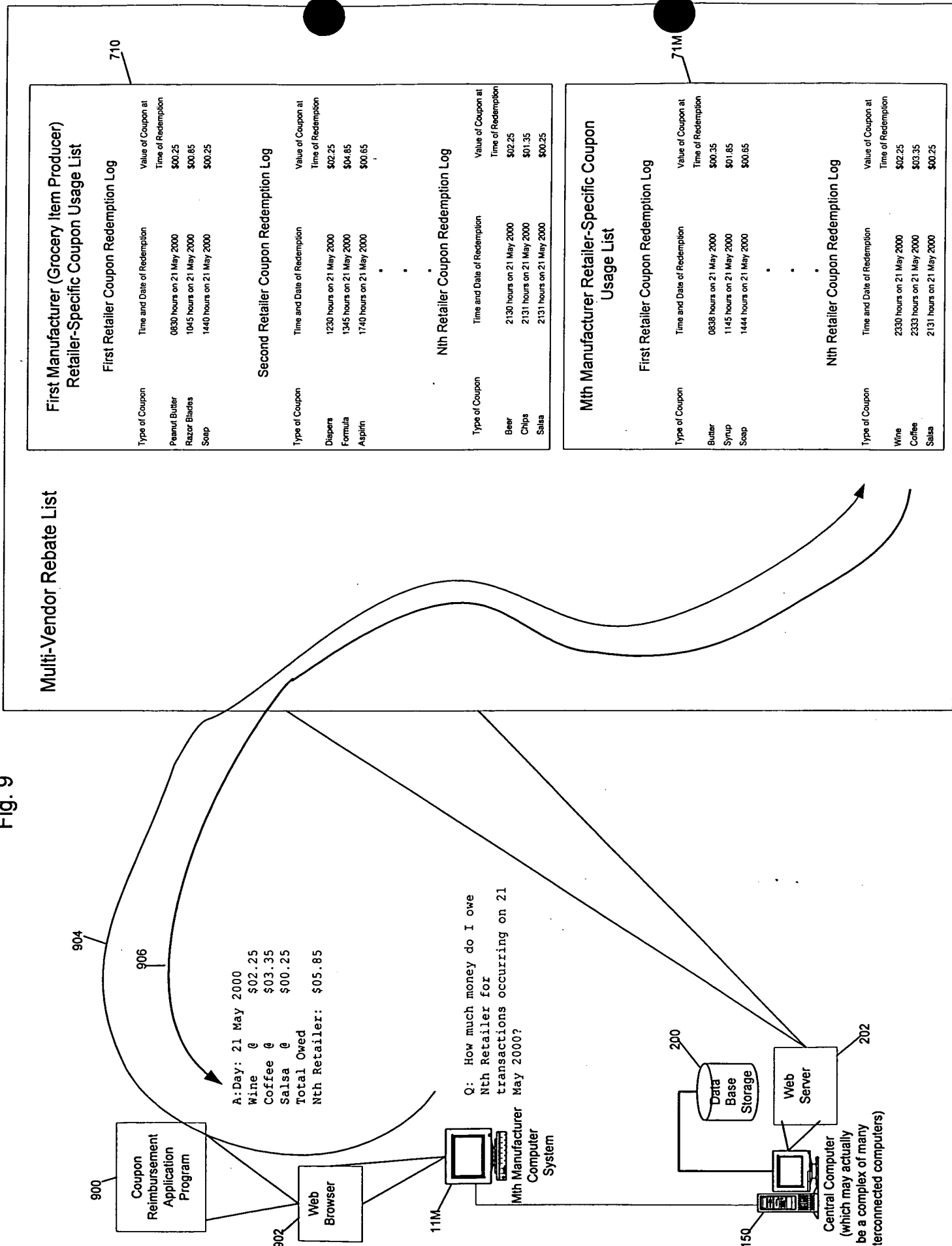
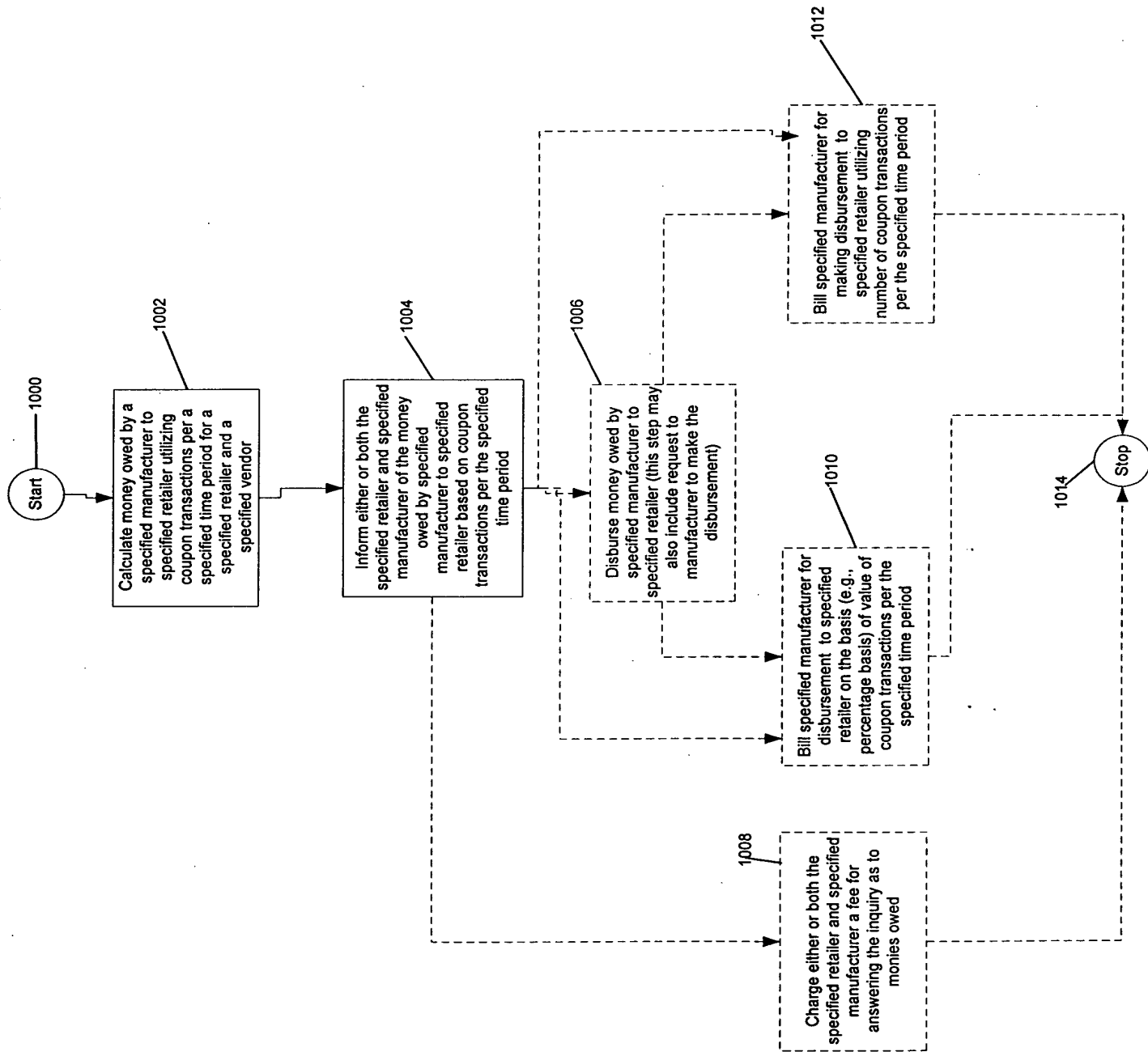
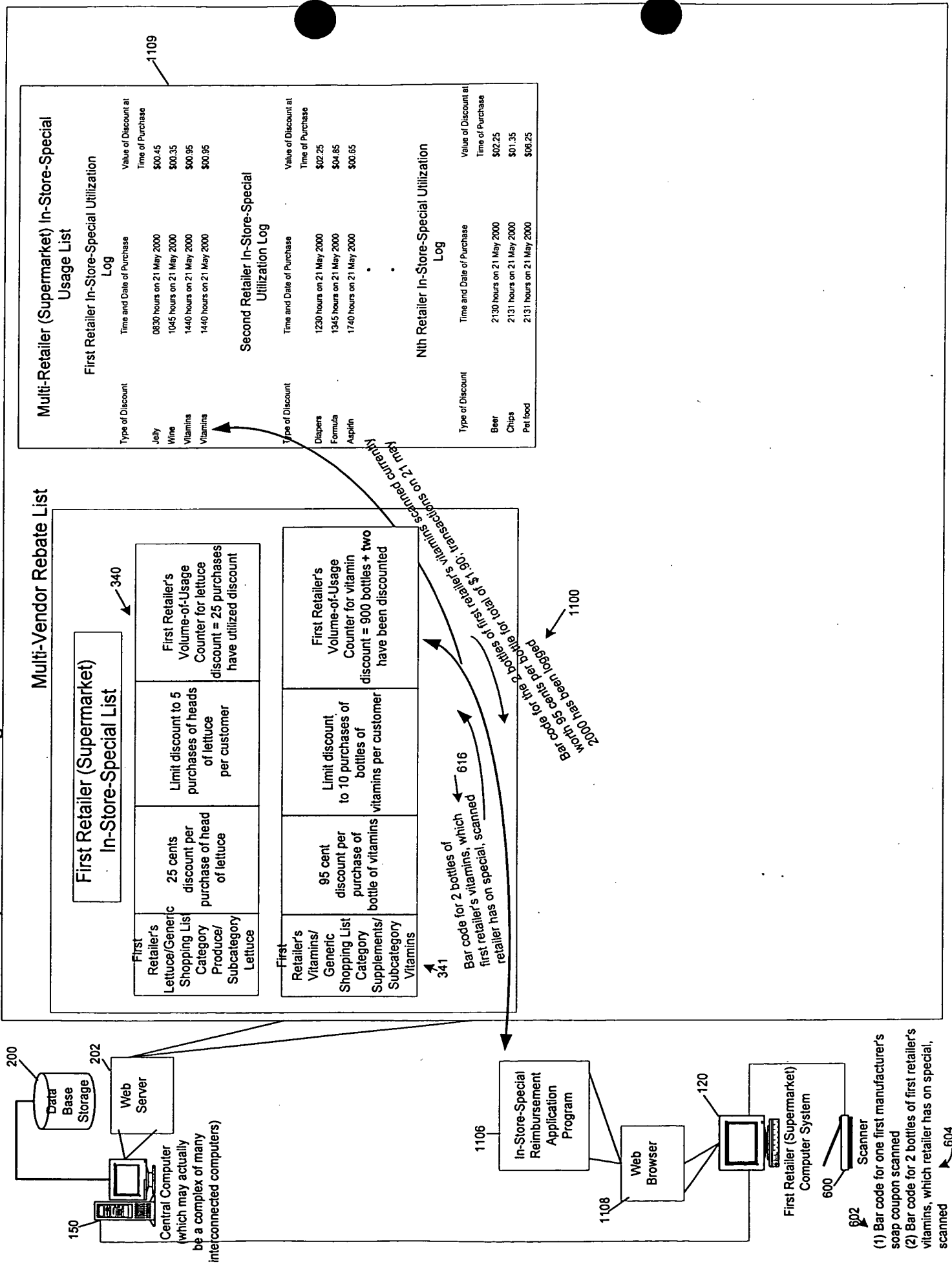


Fig. 10





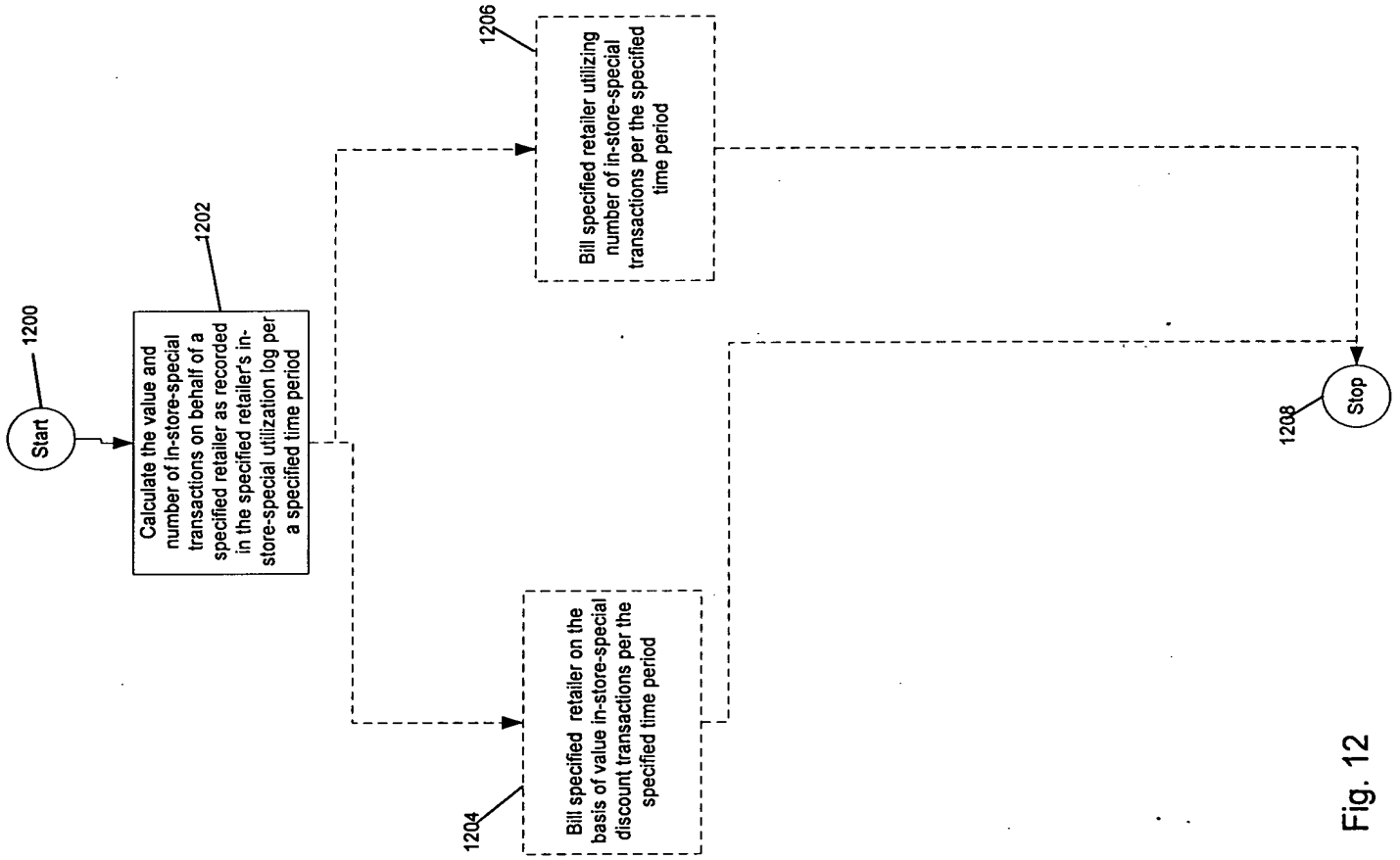


Fig. 12

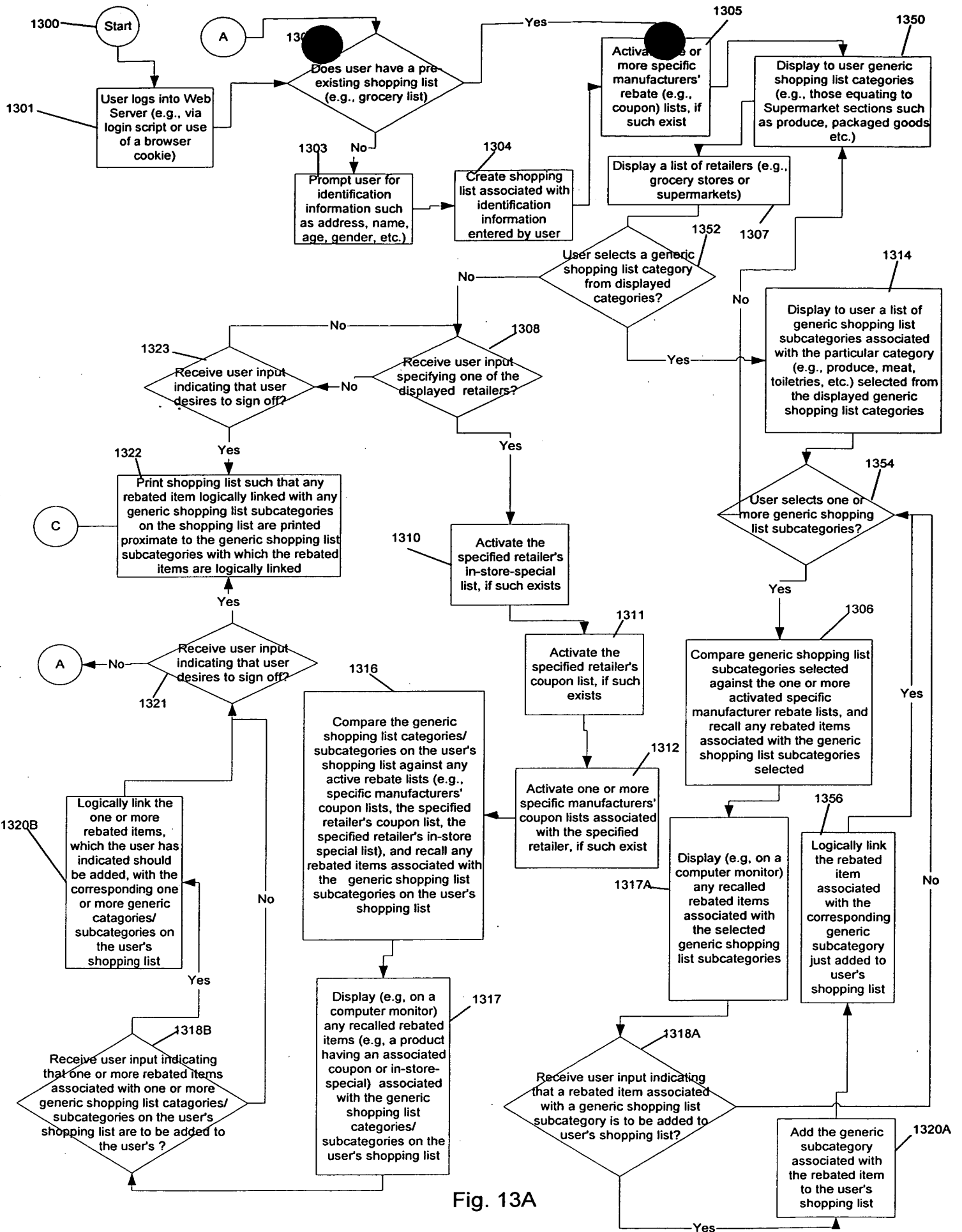


Fig. 13A

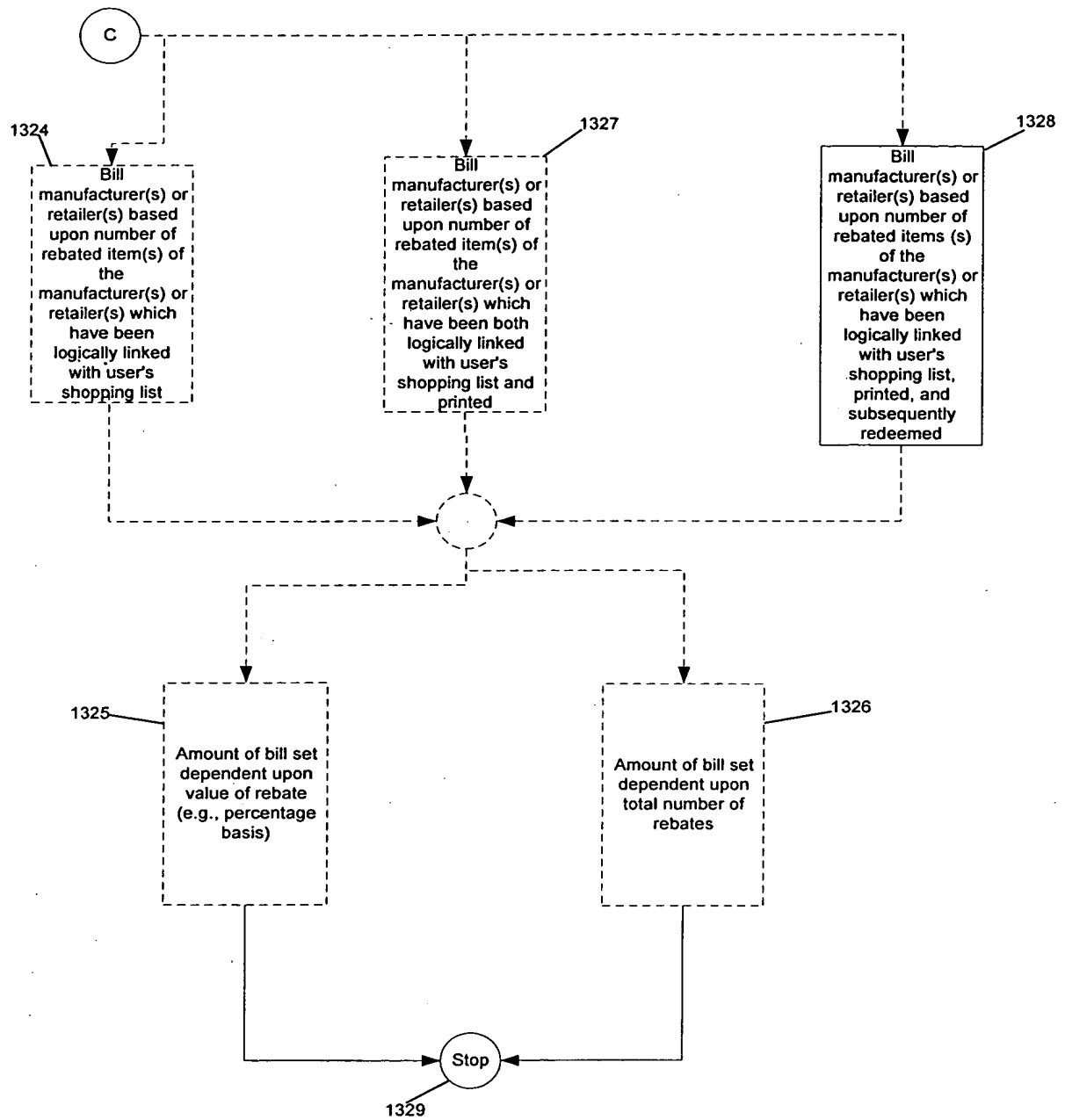
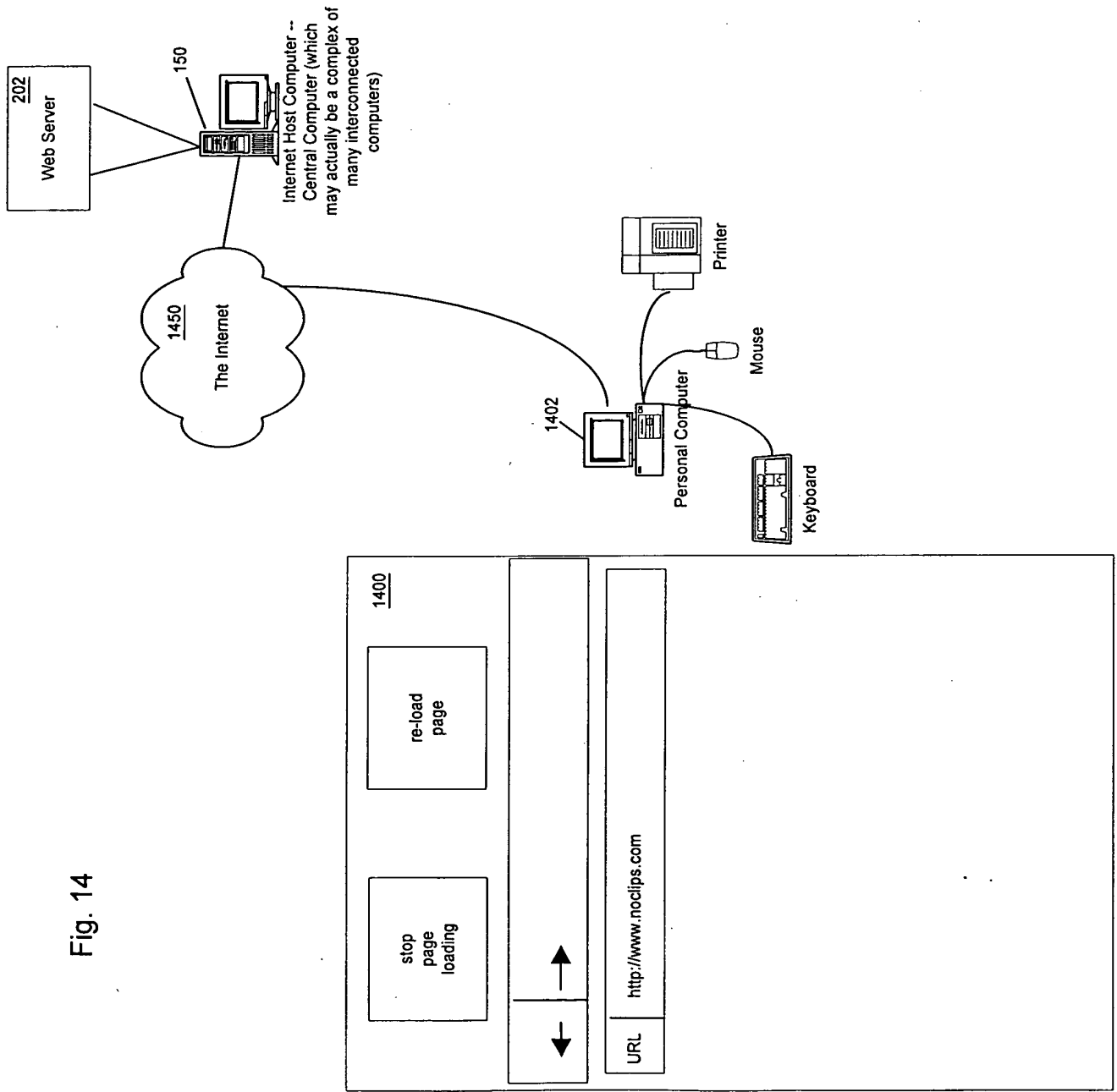


Fig. 13B




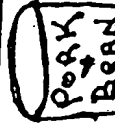

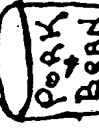
Fig. 14



000150" 01252550

Fig. 18 1502

1500

Albertson	HEB	Randels	Kroger	Safeway	Walmart
					
Master List	1500	1500	1500	1500	1500
Click on Store To Show Store Special	1512	1512	1512	1512	1512
MANUFACTURE COUPONS	1514	1514	1514	1514	1514
other Misc.	1515	1515	1515	1515	1515
Movies	1516	1516	1516	1516	1516
EXIT	1518	1518	1518	1518	1518

Special HEB Special

Next

1602

Back

1604

Home

1606

Add To

Grocery

1608

Save on

grocery

1609

Fuel

Price

1612

Movies

1516

Save \$1.00

On HEB Convenience Pack Diapers

1603

\$1.15

1616

CORN FLAKES

3.99¢

For

CORN

2.3

For

HEB Half Moon Cheddar Or Colby

2.5

For

Smoked Sausage

1609

1612

69¢

Lb.

Washington

EXTRA LARGE!

cook!

MANUFACTURE LOGS

Campbell's

2000

MANUFACTURE

Del Monte - Pato	Kee & Gamble - Hinz	Hunts - Welch - Kellogg
------------------	---------------------	-------------------------

Access	17th
Lable	

Lable	1700
BACK	1700

Add To - 1608

Grocery List

next

save on
grocery
list

[illegible]

Save 55¢ on 2
V-8, 100% Vegetable Juice
(any size, any variety except
 samples \$3.92 & \$11.50)




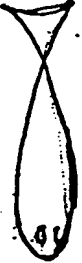


EXPIRES 03/31/00
 51000 41028 8 (8101) 0 40691 0300
 51000 11021 8 (8101) 0 01017 0300
 Campbell's Campbell's Campbell's

5191-J

1800


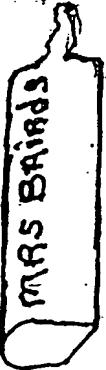
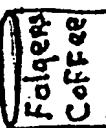






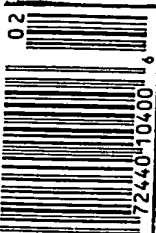
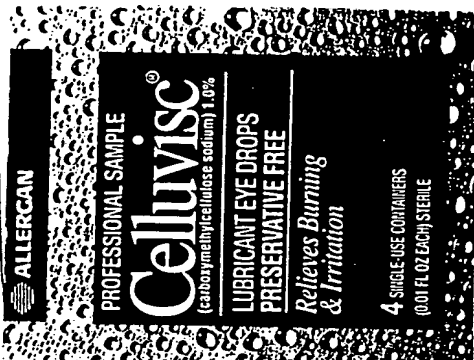
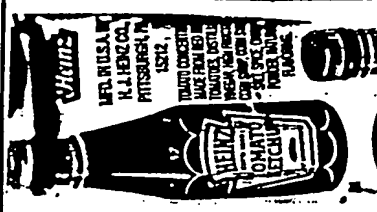

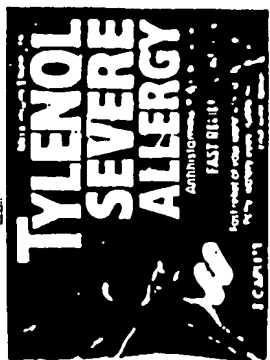
Fig 18

1802

ALBERTSON		HEB		RANDALL'S		KROGER		SAFEWAY		WALMART	
											
1504		1802		1802		1802		1802		1804	
Print	Produce	Meat/Seafood	Grocery								
	Dairy	Cheese	Bakery								
Back	Household	Body Care	Supplements								
Click on store to show store special	Gifts	Be able to construct list to suit Patrons shipping pattern of store									
New Product	1816										
Manufacturer	1514										

FIL 19




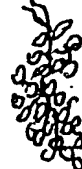
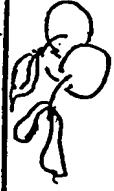


1900

ALBERTSON	HEB	RANDALL'S	KROGER	SAFEWAY	WALMART
					
Master List	<div>1902</div>  <div>1609</div>				
Edit					
Print					
Add to Grocery List	  <p>49000-21101</p>  <p>72440-10400-1</p>  <p>ALLERGAN PROFESSIONAL SAMPLE Celluvisc (carboxymethylcellulose sodium) 1.0% LUBRICANT EYE DROPS PRESERVATIVE FREE Relieves Burning & Irritation 4 SINGLE-USE CONTAINERS (0.01 FL OZ EACH) STERILE</p>				
Save on Grocery List	  <p>16000-57401</p>				
Next	 <p>TYLENOL SEVERE ALLERGY FAST RELIEF 100% ASPIRIN FREE</p>				
Back					
Previous New Product Page					

000150 01252500

2000 → P1620 2003

1502

	ALBERTSON	HEB	RANDALLS	KROGER	SAFEWAY	WALMART	
1504							
	Post	CEISCO	COKE	CAMPBELL'S	VAN DE CAMP		
2010	Delete from Shopping List						
1608	Add						
1816	New Product						
1508	Edit						
1604	Back						
1609	Save						
1570	Print						
2002	Next Current Generic Shopping List Category (Produce Page)						

2008

Mushrooms
Onions
Oranges
Peaches
Pears
Peas
Peppers
Potatoes
Strawberries
Spinach
Sprouts
Tomatoes
Watermelon

2004

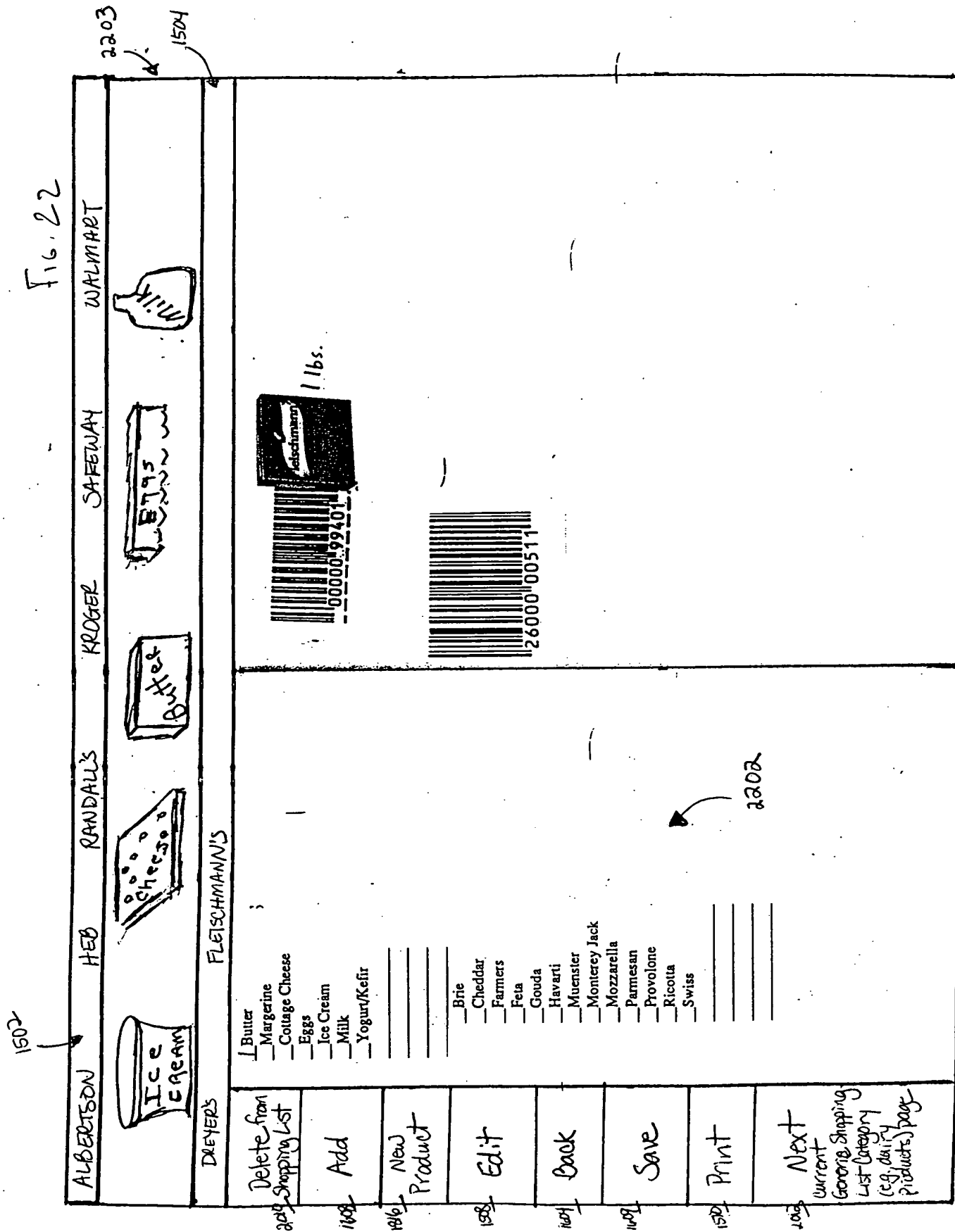
18000 81301

Mushrooms
15% per bush
room discount

at HEB


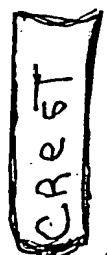

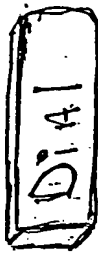



2102

FIG. 22



1502






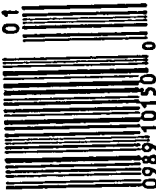
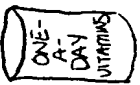
2303

ALBERTSON	HEB	RAIDALLS	KROGER	SAFEWAY	WALMART
					
Crest	Dial	TGEL	BAN		
 18100 44835					
<div> <div> <div>2010</div> <div>Delete from Shopping List</div> </div> <div> <div>1608</div> <div>Add</div> </div> <div> <div>1816</div> <div>New Product</div> </div> <div> <div>1508</div> <div>Edit</div> </div> <div> <div>1604</div> <div>Back</div> </div> <div> <div>1609</div> <div>Save</div> </div> <div> <div>1510</div> <div>Print</div> </div> <div> <div>2002</div> <div>Next</div> <div>Current Generic Shopping List Category (e.g. Toiletries) page</div> </div> </div>					






2302

Fig 2 d 2403

1502

ALBERTSON		HEB	RANDALL'S	KROGER	SAFEWAY	WALMART
						
ROLL AIDS		ONE-A-DAY		B-G SQUID		
<div>1501 Delete from shopping list 2010</div>		<div>1608 Add 1608</div>				
<div>1816 Edit 1816</div>		<div>1508 New Product 1508</div>				
<div>1604 Back 1604</div>		<div>1602 Save 1602</div>				
<div>1502 Print 1502</div>		<div>2402 Next 2402</div>				
<div>2002 Current Generic Shopping List Category (c.g. Supplements) Page 2002</div>		<div>01 >  0989-10150-0</div> <div></div>				

1502
1502

ALBERTSON		HEB		RANDALLS		KROGER		SAFEWAY		WALMART	
											
General Electric		TIDE		CLOROX		CHARMIN					
2012	Delete from Shopping List	<div>1 Detergent</div> <div>2 Tissue (facial, toilet)</div> <div>1 Plastic Bags</div> <div>1 Light bulbs</div> <div>1 Paper Towels</div> <div>1 Wrap (plastic, wax, foil)</div>									
1608	Add										
1816	Edit										
1508	New Product										
1604	Back										
1609	Save										
1512	Print										
2012	Next Current Generic Shopping List Category (e.g. Household Goods) page	<div>18000-81301</div> <div>4 PK</div>									

2502

11

Flare

Back


Next

[illegible]

NEWLY RESTORED
FIRST TIME IN DIGITAL STEREO!
ALFRED HITCHCOCK'S
"NORTH
BY NORTHWEST"
CARY GRANT, EVA MARIE SAINT
Today at 2:30 5:15, & 8 pm
Mon thru Wed at 8 pm

Reproduction of Ernest Lehman's
manuscript on display in lobby.
Courtesy of UT's Harry Ransom
Humanities Research Center.

Adults \$5
Students \$3.00 /
Seniors & 55 /
Military \$4.

PARAMOUNT
P R E S E N T S


www.theparamount.org • Film poster displayed
713 Congress • INFO: 472-5470

[illegible]

SNOW FALLING ON CEDARS 12:30, 2:30, 5:30, 7:30, 9:30 PM-11:00 PM
THE TALENTED MR. RIPLEY 12:40, 2:40, 4:40, 6:40, 8:40, 10:40 PM
BEING JOHN MALKOVICH 1:30, 4:05, 7:25 (SHOWING WEEKLY)
TOY STORY 2 12:40, 2:30, 5:30, 7:35, 9:30, 11:00 PM
STUART LITTLE 12:15, 2:30, 4:30, 6:30, 8:30, 10:30 PM
GALAXY QUEST 12:40, 2:40, 5:00, 7:40, 10:10 PM
MAN ON THE MOON 1:50, 2:30, 5:10, 8:40, 11:40 PM
▶ ANNA AND THE KING 1:30, 4:15, 7:00, 9:20 PM-11:00 PM
THE GREEN MILE 2:00, 5:00, 8:00 PM
100% GREAT

DEUCE BIGALOW: MALE GIGOLO 12:30, 2:30, 4:30, 6:30, 8:30, 10:30 PM

GREAT HILLS 8 11:50, 1:50, 3:40, 5:40, 7:40, 9:40 PM
LOS 183 & GREAT HILLS TRAIL 7:40-9:07 PM

MAGNOLIA 8:00 PM TWO SCREENS
SCREEN 1: 11:40, 2:40, 5:40, 8:40 PM
SCREEN 2: 1:00, 5:00, 8:00 PM

GALAXY QUEST PG TWO SCREENS
SCREEN 1: 12:30, 2:30, 5:30, 8:30, 10:25 PM
SCREEN 2: 11:30, 2:10, 5:20, 7:20, 9:40 PM

ANY GIVEN SUNDAY 8:00 PM TWO SCREENS
SCREEN 1: 12:15, 1:50, 7:50 PM
SCREEN 2: 11:15, 2:50, 7:10 PM

BICENTENNIAL MAN 1:15, 4:10, 7:15, 10:00 PM STEADY BOAT

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F1627

PRODUCE

- (5) APPLE
- (1) CABBAGE
- (10) LIME
- (1) LETTUCE
- (10) POTATO LBS.
- (5) TOMATO

PACKAGED GOODS

- (2) GREEN BEANS
- (2) ASPARIGAS
- (1) COOKING OIL
- (5) SOUP
- (1) SALT
- (1) PEPPER
- (4) PORK AND BEAN
- (2) PASTA
- (1) PEANUT BUTTER

PAPER GOODS

- (4) PAPER TOWLS
- TISSUE
- (1) FACIAL
- (2) TOILET

DAIRY PRODUCTS

- (1) MILK
- (2) EGGS
- (2) BUTTER
- CHEESE
- (1) CHEDDER
- (1) AMERICAN

MEAT

- (8) STEAK
- (2) BACON
- (2) CHICKAN

DRINKS

- (2) SODA
- (1) WINE
- (1) BEER

HOUSEHOLD GOODS

- (1) WRAP (FOIL)
- (1) BLEACH



25 ft



16 oz



24 oz



4 pk



1 lbs.



16 oz



10 oz

006750 01292560

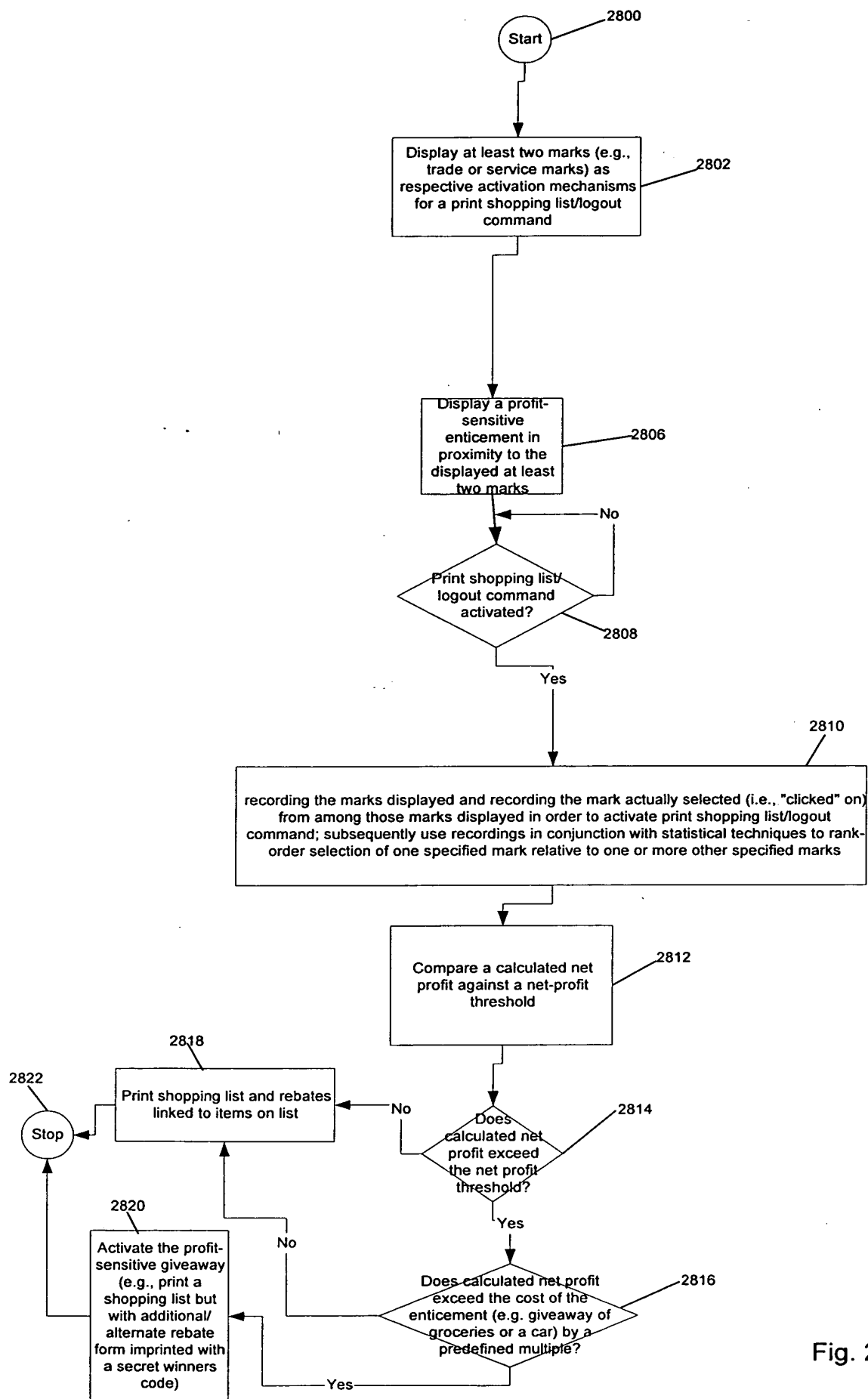


Fig. 28

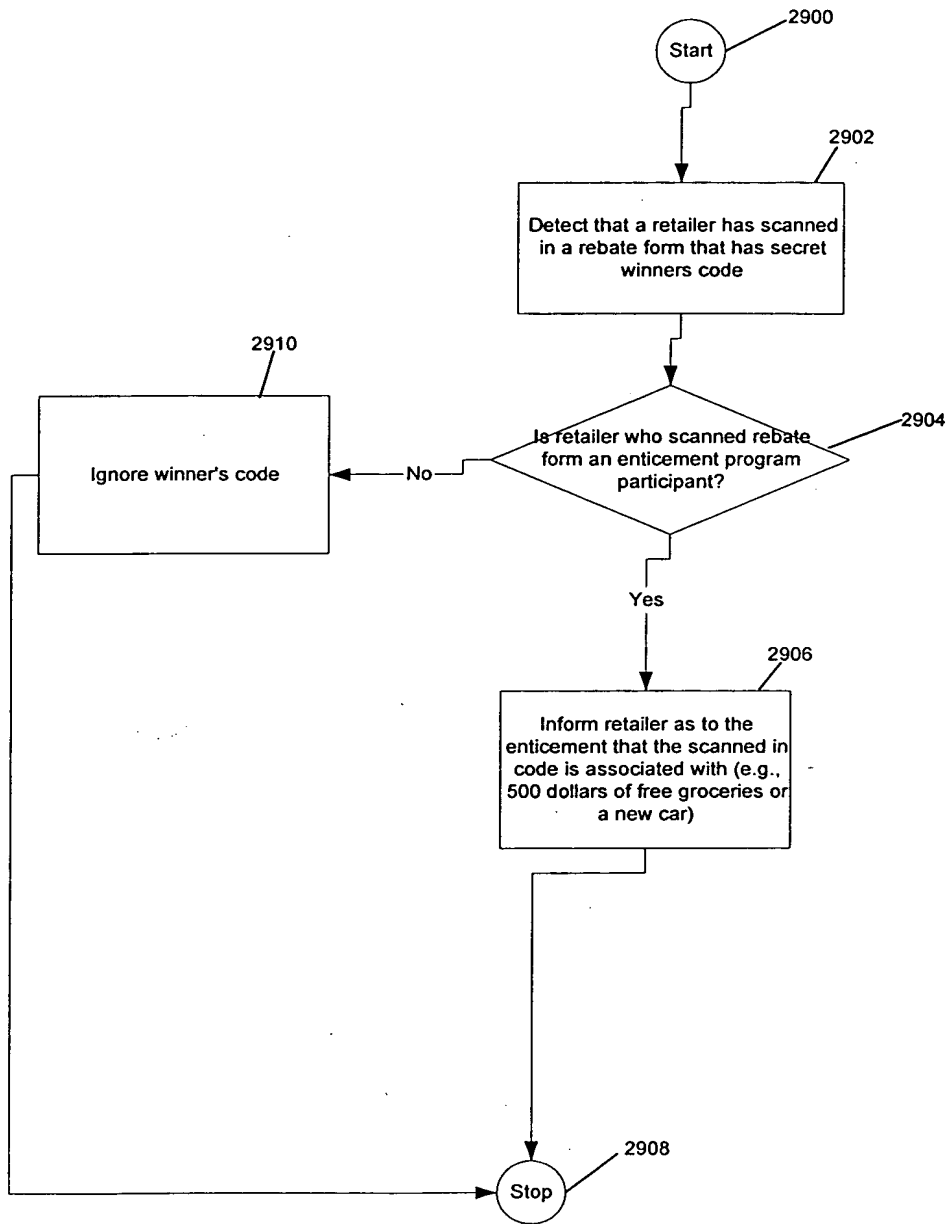


Fig. 29

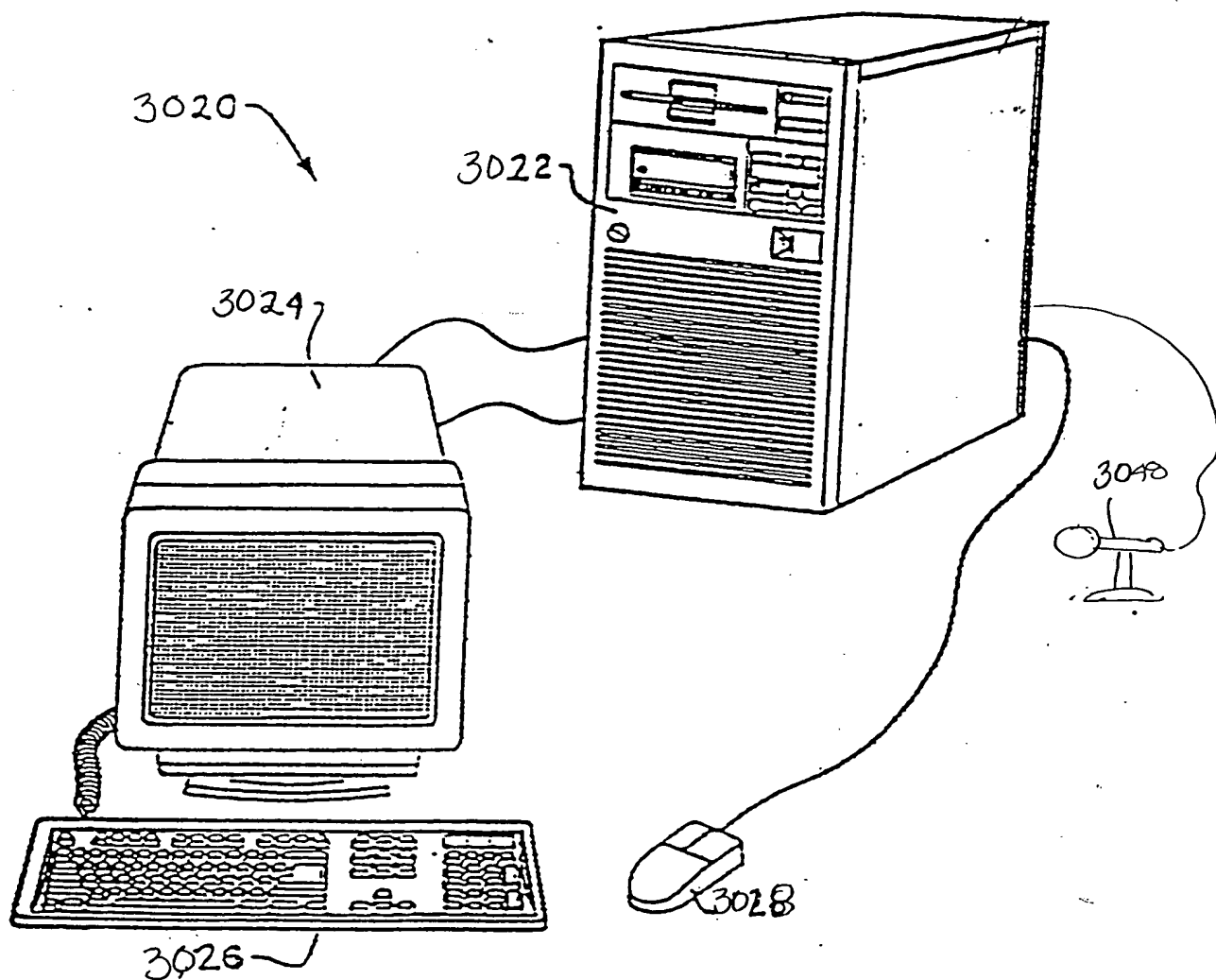


FIG 30






	HEB	Randalls	Kroger	SAFEWAY	WAL-MART
					
Next	List Alpha Those who				
Alpha	Dobussiness with us				
Catagories	OR				
Back	<input type="checkbox"/> Betty Crocker <input type="checkbox"/> Cambells <input type="checkbox"/> Del monte <input type="checkbox"/> Duncan Hines <input type="checkbox"/> General mills <input type="checkbox"/> Huatt's <input type="checkbox"/> International Home Foods <input type="checkbox"/> Kellogg's <input type="checkbox"/> Nabisco <input type="checkbox"/> Post <input type="checkbox"/> Proctor and Gamble	By Catagory, New Products <input type="checkbox"/> Cereal <input type="checkbox"/> Canned Vegetables <input type="checkbox"/> Paper Good <input type="checkbox"/> Soft Drinks <input type="checkbox"/> Baking Goods <input type="checkbox"/> Personal Care			

FIG. 31

3102

3104










<div> <div>          </div> <div> <div>HEB</div> <div>Randalls</div> <div>Kroger</div> <div>SAFEWAY</div> <div>WAL-MART</div> </div> </div>	
Next	<p>List Alpha Those who Do business with us</p>
Alpha	<p>By Category, New Products</p>
Catalogs	<p> <input type="checkbox"/> Betty Crocker <input type="checkbox"/> Cambells <input type="checkbox"/> Del monte <input type="checkbox"/> Duncan Hines <input type="checkbox"/> General Mills <input type="checkbox"/> Hunt's <input type="checkbox"/> International Home Foods <input type="checkbox"/> Kellogg's <input type="checkbox"/> Nabisco <input type="checkbox"/> Post <input type="checkbox"/> Proctor and Gamble </p>
Back	<p> <input type="checkbox"/> Cereal <input type="checkbox"/> Canned Vegetables <input type="checkbox"/> Paper Goods <input type="checkbox"/> Soft Drinks <input type="checkbox"/> Baking Goods <input type="checkbox"/> Personal Care </p>
	<p>New Products!</p>
	<p>New Products!</p>

FIG. 32 3202 3204